



Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 6

Complete if Known

Application Number 09/801,351
 Filing Date March 7, 2001
 First Named Inventor Calvin Ostler
 Art Unit 3732
 Examiner Name J.J. Wilson
 Attorney Docket Number MBM1410

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.†	Document Number Number - Kind Code* (if known)	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/JW/		5474449	1995-12-12	Loge et al.	
		4822335	1989-04-18	Kawai et al.	
		6159005	2000-12-12	Herold et al.	
		2001/0007739 A1	2001-07-12	Eibofner et al.	
		6171331 B1	2001-01-09	Bagraev et al.	
		5189832	1992-12-08	Duell et al.	
		3638013	1972-01-25	Keller	
		3712984	1973-01-23	Lienhard	
		3733481	1973-05-15	Kuyt	
		3868513	1975-02-25	Gonser	
		3970856	1976-07-20	Mahaffey et al.	
		4048490	1977-09-13	Troue	
		4114274	1978-09-19	Jones	
		4114946	1978-09-19	Hoffmeister et al.	
		4149086	1979-04-10	Nath	
		4184196	1980-01-15	Moret et al.	
		4185891	1980-01-29	Kaestner	
		4186748	1980-02-05	Schla er	
		3512027 A	1980-05-12	Kupsky	
		4209907	1980-07-01	Tsukada et al.	
		4229658	1980-10-21	Gonser	
		4230453	1980-10-28	Reimers	
		4233649	1980-11-11	Scheer et al.	
		4280273	1981-07-28	Vincent	
		4298806	1981-11-03	Herold	
		4337759	1982-07-06	Popovich et al.	
		4346329 A	1982-08-24	Schmidt	
		4391588	1983-07-05	Matsui	
		4398885	1983-08-16	Loge et al.	
		4412134	1983-10-25	Herold et al.	
		4445858	1984-05-01	Johnson	
		4450139	1984-05-22	Bussiere et al.	
		4610630	1986-09-09	Betush	
		4666406	1987-05-19	Kanca, III	
		4673353	1987-06-16	Nevin	
		4716298	1987-12-29	Bussiere et al.	
		4729076	1988-03-01	Masami et al.	
		5762867 A	1988-06-09	D'Silva	
		4757381	1988-07-12	Cooper et al.	
		4792692	1988-12-20	Herold et al.	
		4810194	1989-03-07	Snedden	
/JW/		4826431	1989-05-02	Fujimura et al.	

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
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(use as many sheets as necessary)

Sheet 2 of 6

Complete if Known

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/JW/		4836782	1989-06-06	Gonser	
		4839566	1989-06-13	Heroid et al.	
		4888489	1989-12-19	Bryan	
		4935665	1990-06-19	Murata	
		4936808	1990-06-26	Lee	
		4948215	1990-08-14	Friedman	
		4963798	1990-10-16	McDermott	
		4999310	1991-03-12	Kim	
		5003434	1991-03-26	Gonser et al.	
		5007837	1991-04-16	Werly	
		5017140	1991-05-21	Ascher	
		5029957	1991-07-09	Hood	
		5070258	1991-12-03	Izumi et al.	
		5115761	1992-05-26	Hood	
		5147204	1992-09-15	Patten et al.	
		5150016	1992-09-22	Sawase et al.	
		5160200 A	1992-11-03	Cheselske	
		5161879	1992-11-10	McDermott	
		5162696	1992-11-10	Goodrich	
		5173810	1992-12-22	Yamakawa	
		5198678	1993-03-30	O awsk	
		5201655	1993-04-13	Friedman	
		5233283	1993-08-03	Kennedy	
		5242602	1993-09-07	Richardson et al.	
		5265792	1993-11-30	Harrah et al.	
		5278629	1994-01-11	Schla er et al.	
		5283425	1994-02-01	Imamura	
		5290169	1994-03-01	Friedman et al.	
		5302124	1994-04-12	Lansing et al.	
		5312249	1994-05-13	Kennedy	
		5316473	1994-05-31	Hare	
		5328368	1994-07-12	Lansing et al.	
		5371826	1994-12-06	Friedman	
		5373114	1994-12-13	Kondo et al.	
		5420768	1995-05-30	Kennedy	
		5445608	1995-08-29	Chen et al.	
		5457611	1995-10-10	Verderber	
		5471129	1995-11-28	Mann	
		5487662	1996-01-30	Kipke et al.	
		5521392	1996-05-28	Kennedy et al.	
		5530632	1996-06-25	Shikano et al.	
		5535230	1996-07-09	Abe	
		5616141	1997-04-01	Cipolla	
		5617492	1997-04-01	Beach et al.	
/JW/		5634711	1997-06-03	Kennedy et al.	

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				Attorney Docket Number	MBM1410
Sheet	3	of	6		

/JW/	5660461	1997-08-26	Ignatius et al.	
	5664042	1997-09-02	Kennedy	
	5698866	1997-12-16	Doiron et al.	
	5800478	1998-01-09	Chen et al.	
	5707139	1998-01-13	Haitz	
	5711665	1998-01-27	Adam et al.	
	4742432 A	1998-05-03	Thillays et al.	
	5747363	1998-05-05	Wei et al.	
	5803729	1998-09-08	Tsimerman	
	5857767	1999-01-02	Hochstein	
	5912470	1999-06-15	Eibofner et al.	
	5928220	1999-07-27	Shimoji	
	5975895	1999-11-02	Sullivan	
	6008264	1999-12-28	Ostler et al.	
/JW/	6033223	2000-03-07	Narusawa et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.*	Foreign Patent Document Country Code* - Number* - Kind Code* (if known)	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
/JW/		DE 295 11 927 U1	1997-02-02	THERA Patent GmbH & Co.		
		EP 0 116 405 A1	1984-08-22	Co-Steel International Limited		
		EP 0 266 038 B1	1991-10-23	Kureha Kagaku Kogyo Kabushiki Kaisha		
		EP 0 320 080 B1	1993-08-04	Omega Universal Limited		
		EP 0 672 435 A1	1985-09-20	Amron Ltd.		
		EP 0 678 282 A2	1995-10-25	Minnesota Mining & Manufacturing Co.		
		EP 0 755 662 A1	1997-01-29	THERA Patent GmbH & Co.		
		EP 0 780 103 A2	1997-06-25	Heraeus Kulzer GmbH		
		CA 2 190 225	1997-06-23	Canada		
		EP 0 879 582 A2	1998-11-25	EKA Gesellschaft		
		EP 1 031 326 A1	2000-08-30	Jean-Michel Decaudin		
		EP 1 090 607 A1	2001-04-11	Mectron S.R.L.		
		EP 1 090 608 A1	2001-04-11	Mectron S.R.L.		
		EP 1 112 721 A1	2001-07-04	Kaltenbach & Voigt GmbH & Co.		
		EP 1 138 276 A1	2001-10-04	CMS-Dental ApS		
		GB 2 212 010 A	1989-07-12	Amcor Ltd.		
		GB 2 329 756 A	1999-03-31	University of Bristol		
		JP 8141001 A	1996-06-04	Osada Res Inst Ltd		
		JP 8194786 A	1997-07-30	ABO SYS KK		
		JP 51-42607	1976-04-10	Dainippon Printing Co. Ltd.		
		WO 00/13608 A1	2000-03-16	Akeda Dental A/S		
/JW/		WO 01/14012 A1	2001-03-01	Thomas Russell		

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 4 of 6

Complete If Known

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/JW/		WO 00/15298 A1	2000-03-23	Light Sciences Limited Partnership		
		WO 00/41726 A2	2000-07-20	Light Sciences, Ltd.		
		WO 00/41767 A1	2000-07-20	Biolight Patent Holding AB		
		WO 00/43067 A1	2000-07-27	Rolf Thiberg		
		WO 00/43069 A1	2000-07-27	Biolight Patent Holding AB		
		WO 00/43068 A1	2000-07-27	Biolight Patent Holding AB		
		WO 00/45733 A1	2000-08-10	Jean-Michel Decaudin		
		WO 00/67048 A2	2000-11-09	Premier Laser Systems, Inc.		
		WO 00/67660 A1	2000-11-16	Martin Young		
		WO 00/02491 A1	2000-01-20	Harth et al.		
		WO 01/19280 A1	2001-03-22	ESPE Dental AG		
		WO 01/24724 A1	2001-04-12	New Photonics, LLC		
		WO 01/54770 A1	2001-08-02	Salansky et al.		
		WO 01/60280 A1	2001-08-23	Francois Duret		
		WO 01/64129 A1	2001-09-07	3M Innovative Properties Company		
		WO 01/68035 A2	2001-09-20	Dentsply International Inc.		
		WO 01/69691 A1	2001-09-20	Reipur Technology A/S		
		WO 01/03770 A1	2001-01-18	Light Sciences Limited Partnership		
		WO 83/01311 A1	1983-04-14	Quentron Optics Pty. Ltd.		
		WO 95/07731 A1	1995-03-23	EFOS Canada Inc.		
		WO 99/35995 A1	1999-07-22	Kerr Coporation		
		WO 00/41768 A1	2000-07-20	Light Sciences, Ltd.		
		WO 84/04463 A1	1984-11-22	MTA Kőzponti Fizikai Kutató Intézet		
		WO 92/02275 A1	1992-02-20	Iris Roller		
		WO 93/09847 A1	1993-05-27	Erik Larsen		
		WO 93/21842 A1	1993-11-11	Quadra Logic Technologies, Inc.		
		WO 95/19810 A1	1995-07-27	Biolight Patent Holding AB		
		WO 95/26217 A1	1995-10-05	Maef S.R.I.		
		WO 97/36552 A1	1997-10-09	Nulite Systems International Pty. Ltd.		
		WO 97/37722 A1	1997-10-16	Bagraev et al.		
		WO 97/46279 A1	1997-12-11	Biolight Patent Holding AB		
		WO 97/46280 A1	1997-12-11	Biolight Patent Holding AB		
		WO 98/03131 A1	1998-01-29	Minnesota Mining & Manufacturing Co.		
		WO 98/04317 A1	1998-02-05	Light Sciences Limited Partnership		
		WO 99/11324 A1	1999-03-11	Asah Medico		
		WO 99/16136 A1	1999-04-01	University of Bristol		
		WO 99/20346 A1	1999-04-29	Light Sciences Limited Partnership		
		WO 99/09071 A1	1999-02-25	Ultradent Products, Inc.		
/JW/		EP 1 138 276 A1	2001-10-04	CMS-Dental ApS		

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Sheet	5	of	6		

/JW/		WO 00/01464 A2	2000-01-13	Filterwerk Mann/Hummel GmbH		
		GB 2 218 636 A	1989-11-22	Rhys ap Ieuan Phillips		
		JP 6285508 A	1994-10-11	Kawaski Steel Co.		
		JP 7163863 A	1995-06-27	Minnesota Mining & Mfg.		
		WO 00/13608 A1	2000-03-16	Akeda Dental		
		WO 01/01118 A1	2001-01-04	Koninklijke Philips Electronics N.V.		
/JW/		DE 100 10 638 A1	2000-03-03	OSRAM Opto Semi-conductors GmbH & Co. oHG		

NON PATENT LITERATURE DOCUMENTS			
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/JW/		LumiLeds Lighting LLC, <u>Lumen Maintenance of White Luxeon™ Power Light Sources</u> , Application Brief AB07, LumiLeds Lighting, US LLC, <u>March, 2006</u>	
		LumiLeds Lighting LLC, <u>Application Breif AB20-5, replaces AN1149-5, Secondary Optics Design Considerations for Super Flux LEDs</u> , Copyright© 2002 LumiLeds Lighting, Publication No. AB20-5	
		BURGESS, JOHN et al., <u>An Evaluation of Four Light-curing Units Comparing Soft and Hard Curing</u> , Pract. Periodont. Aesthet. Dent. 11(1), 125-132, 1999	
		DAVIDSON-KABAN, SALIHA S. et al., <u>The Effect of Curing Light Variations on Bulk Curing and Wall-to-Wall Quality of Two Types and Various Shades of Resin Composites</u> , Dent. Mater. 13, 344-352, November 27, 2003	
		FEITZER, A.J. et al., <u>Influence of Light Intensity on Polymerization Shrinkage and Integrity of Restoration-cavity Interface</u> , Eur. J. Oral Sciences, 103, 322-326, 1995	
		KORAN, PETER et al., <u>Effect of Sequential Versus Continuous Irradiation of a Light-Cured Resin Composite on Shrinkage, Viscosity, Adhesion, and Degree of Polymerization</u> , Am. J. of Dentistry, 11, No. 1, 17-22, 1998	
		MAYES, JOE H., <u>Curing Lights: An Overview</u> , Ormco, vol. 9, No. 2, 2000, pg. 15-17	
		MEHL, A. et al., <u>Physical Properties and Gap Formation of Light-Cured Composites With and Without 'Softstart-Polymerization'</u> , J of Dentistry, 25, 321-330, 1997	
		SAKAGUCHI, RONALD L. et al., <u>Recuded Light Energy Density Decreases Post-Gel Contraction While Maintaining Degree of Conversion in Composites</u> , J. of Dentistry, 26, 695-700, 1998	
		SCHLAGER, KENNETH J., et al., <u>An LED-Array Light Source for Medical Therapy</u> , SPIE Vol. 1892, Medical Lasers and Systems II, p. 26-35, 1993	
/JW/		TARLE, Z. et al., <u>The Effect of the Photopolymerization Method on the Quality of Composite Resin Samples</u> , J. of Oral Rehab, 25, 436-442, 1998	

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